# ALBERT ARIEL WIDIAATMAJA

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### **EDUCATION**

### National University of Singapore

Aug 2021 – Present

B. Comp in Computer Science and Mathematics Double Majors

- · GPA: 5.0 (out of 5.0)
- · Recipient of NUS Undergraduate Merit Scholarship (ASEAN)

### WORK EXPERIENCE

### ConcreteAI Software Engineering Intern

May 2022 – Aug 2022

- · Performed low-level development on RAK3172 in C++ to add Bluetooth Low Energy (BLE) functionality for transmission of concrete temperature development data
- · Developed an android application to connect and receive data from BLE devices with Kotlin (Android Studio)
- · Employed PyTorch MLP machine learning model to classify concrete types based on temperature development data

### National University of Singapore Teaching Assistant

Aug 2022 – Present

- · Taught CS1010E Introduction to Programming in Python to a class of 25 freshmen
- · Conducted tutorial and consultation sessions to help students understand programming concepts

#### **PROJECTS**

## FoodSense Full-Stack Software Engineer

May 2022 – Aug 2022

- · Worked in a team of two to create restaurant sentiment analysis website as software engineer
- · Built the database system using Firebase, backend API using NodeJS and ExpressJS, and frontend using React and MUI3
- · Check out the live website at https://foodsense2022.github.io/

#### SKILLS

- · Programming: C++, Java, JavaScript, Python, C, HTML, CSS, Kotlin
- · Frameworks: React, Kotlin (Android Studio), NodeJS, ExpressJS, Firebase, MongoDB, Git

### ACTIVITIES

### NUS Indonesian Association Co-Director of Tech. Division

May 2022 - Present

- · Lead 8 programmers to update https://pinusonline.org/ and work on upcoming projects
- · Organized NUS Indonesian Association Orientation 2022 for 100+ Indonesian freshmen

### Young Physicists' Tournament

Sep 2019 – Mar 2020

- · Built experimental set-up and analyzed data on "Speckle Drift" phenomenon using OpenCV
- · Created an optics simulation with C++ and Mathematica to produce theoretical predictions
- · Achieved Silver Medal in Singapore Young Physicists' Tournament Category A 2020

### **Robotics Competitions**

Jan 2019 – July 2020

- · Built robots with Lego and Arduino and programmed using EV3Dev Python and Arduino C
- · Received 3rd Place Award in RoboCup Singapore 2019 Rescue Category

#### Physics Olympiad

Jan 2017 – Dec 2020

· Won Silver Medal Singapore Physics Olympiad 2019, Bronze and Silver Medals in Singapore Junior Physics Olympiad 2017 and 2018